

SPECIAL NOTE

APS PUSHBUTTON MESSAGES

CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

CONSTRUCTION DETAILS (CONTINUATION)

BB.INSTALL BASE MOUNTED CABINET NEMA SIZE #5 WITH UPS SYSTEM NOTE: INSTALL 2-2 IN. CONDUIT BENDS INTO FOUNDATION.

EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR.			
QTY	DESCRIPTION	UNIT	QUANTITY
0	VIDEO DETECTION INTERFACE EQUIPMENT	EA	1
0	TRAFFIC RESPONSIVE MASTER CONTROLLER		
	AND CABINET - BASE MOUNT	EA	1
3	SHEET ALUMINUM SIGNS	SF	112

- 3 - R3-5(L) (30"X36") - MAST ARM MOUNT
1 - R3-6(1) (30"X36") - MAST ARM MOUNT
2 - R3-5(R) (30"X36") - MAST ARM MOUNT
1 - R10-7 (24"X30") - MAST ARM MOUNT
2 - R10-11b (24"X24") - MAST ARM MOUNT
1 - D-3(1) (VAR. X 16") "BELLONA AVE"
RIGHT ARROW - MAST ARM MOUNT
1 - D-3(1) (VAR.X16") "BELLONA AVE"
LEFT ARROW - MAST ARM MOUNT
1 - D-3(1) (VAR.X16") "CHARLES ST" - MAST ARM MOUNT
1 - M3-3 (30"X15"), M1-5(1) (48"X36"), M6-1 (30"X24") - POLE MOUNT


GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
3. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
4. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
7. LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET THE LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
8. FOR ADDITIONAL PAVEMENT MARKING INFORMATION SEE PAVEMENT MARKING PLANS.
9. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM 60"x60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN 2%.
10. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA, DOES NOT HAVE TO REACH MORE THAN 18"
11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
12. VIDEO CAMERA LOCATION/ALIGNMENT SHALL BE COORDINATED WITH THE SHA ENGINEER.
13. FOR LOCATION AND MD STANDARD OF SIDEWALK RAMPS AND DETECTABLE WARNING SURFACES INSTALLATION REFER TO THE ROADWAY PLANS.
14. ALL SIGNAL WORK SHALL BE COORDINATED WITH ROADWAY PLANS. SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO SIDEWALK/RAMP INSTALLATION.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.			
CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
203030	TEST PIT EXCAVATION	CY	5
585625	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	155
585621	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	515
800000	METERED SERVICE PEDESTAL - BASE MOUNTED	EA	1
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	15
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	425
805105	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	165
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	375
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	30
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	90
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	30
810010	ELECTRICAL CABLE 1-CONDUCTOR NO 4 AWG THHN/THWN	LF	30
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	4
813015	INSTALL OVERHEAD SIGN	SF	112
816005	CONTROL CABLE, 250 FT. VIDEO DETECTION CAMERA TO CONTROLLER	EA	4
816010	CONTROL CABLE, 500 FT. VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
818004	10 FT. BREAKAWAY PEDESTAL POLE	EA	2
818010	14 FT. BREAKAWAY PEDESTAL POLE	EA	1
818036	STEEL POLE WITH A SINGLE 50 FT. MAST ARM	EA	2
818041	STEEL POLE WITH A SINGLE 60 FT. MAST ARM	EA	1
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINIAIRE	EA	3
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FT. LENGTH	EA	9
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	33
860292	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	595
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1300
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	505
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	475
866103	15 FT. LIGHTING ARM ON SIGNAL STRUCTURE	EA	3
871117	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT	EA	1
800000	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	4
800000	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON	EA	4
800000	PEDESTRIAN EDUCATION SIGN (R10-3(1) 9"x15"	EA	4
816001	VIDEO DETECTION CAMERA	EA	6
800000	TELEPHONE COMMUNICATION PEDESTAL	EA	1
800000	5-PAIR NO. 22 AWG SHIELDED COPPER CABLE	LF	15
800000	APS CONTROL UNIT	EA	1
800000	UPS SYSTEM WITH BASE MOUNTED CABINET SIZE #5	EA	1

EQUIPMENT LIST "C"

ALL MATERIALS AND EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION
MD 139 (CHARLES ST.) AND BELLONA AVE (EAST) / WB 1-695 ON RAMP TOWSON, MARYLAND	
GENERAL INFORMATION SHEET I	
SCALE <u> NONE </u>	DATE <u> MAY 2008 </u>
CONTRACT NO. <u> BA9775A72 </u>	
DESIGNED BY <u> MLH </u>	COUNTY <u> BALTIMORE </u>
DRAWN BY <u> MLH </u>	LOGMILE <u> 03013903.56 </u>
CHECKED BY <u> DAE </u>	TIMS NO. <u> 1-572 </u>
FAP NO. <u> SEE TITLE SHEET </u>	TOD NO. <u> </u>
TS NO. <u> 4668 </u> GI	DRAWING <u> SP-12 </u> OF <u> 15 </u>
SHEET NO. <u> 373 </u> OF <u> 443 </u>	